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Inaugural Essay

on

Scarlatina

Read March 1828

For the degree of Doctor of Medicine
in the

University of Pennsylvania

Hudson S. Burr

New Jersey.

January 20th 1828.

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Scarlatina, or Scarlet Fever

Scarlet fever is probably a disease of very modern origin. No mention of it is made by the ancient or Arabian authors, and the first time it is distinctly noticed is but little more than two hundred years ago. It has been supposed that the contagion came originally from Africa.

Be this as it may, it first broke out in a severe form in Spain in 1610, from whence it spread to Naples, where it raged epidemically in 1618. In 1689 the same disease made its appearance in London, and was described by Doctor Morton, though not with the accuracy of the first Spanish and Italian authors.

In 1733 it broke out in North America, and spread gradually but slowly over that continent. One of the most curious circumstances in the history of the disease is the slowness of its diffusion.

When the scarlet fever first appeared in Europe, it was in a very malignant form; but between the years 1660

and 1670, a febrile disease attended with scarlet eruption was observed by Sydenham in a form singularly mild, that nosologist have doubted its being really the same disease with that which had previously occurred.

Dr Cullen believed it was specifically different.

Dr Withering states, that in his early practice he considered scarlet fever and putrid sore throat distinct diseases, requiring distinct methods of treatment. More enlarged experience however compelled him to renounce that opinion; and he says, that after paying assiduous attention to the subject, by observing the disease in every difference of season, exposure, age and temperament, he was satisfied that they constitute but one species of disease;—that the variations in their appearances depend upon contingent circumstances, and that their greatest differences are not greater than those of the distinct and confluent small-pox."

("Gregory.") I have not the least doubt but it was a translation from the principles of our present nomenclature.

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Scarlatina receives its name from the peculiarly florid appearance of the skin by which it is accompanied.

It is more prevalent in winter and in spring than in summer and autumn, and more frequently attacks children than adults.

Scarlatina is divided into three forms, viz:

1st Scarlatina Simplex.

2nd Scarlatina Anginosa.

3rd Scarlatina Maligna, this third form is also called Cynancha Maligna or Putrida and Putrid Sore Throat.

Scarlatina Simplex is the simple constitutional disease.

Scarlatina Anginosa is a higher degree of the same disease, the throat being swollen and inflamed.

Scarlatina Maligna is a still higher degree of the same disease, being of a malignant character.

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The throat is inflamed in this species also.

These are the same disease in different degrees, they are related to each other as the distinct and confluent small pox, typhus mitis and typhus gravior and the several stages of bilious fever.

Scarlatina comes on with anorexia, shivering, ful-
mor and tension of the head, prostration of strength,
nausea and vomiting, the skin is hot, fluid or others-
wise according to the nature of the case. At this
period the throat is slightly inflamed, the tongue
red, there is more or less of a catarrhal affection,
pain in the head, and sometimes a disturbance
of the intellectual faculties. The disease being
slight the complaint will be "Simplex" when
more severe "Anginosa" and when threatening
"Maligna".

In the malignant form of the disease, the
patient becomes pale, sick and faint, the intelle-
tual faculties confused, precordial oppression,

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population is, first, an increase in the number with-
out increasing the power, viz., increasing the
surface to the same amount, then up to a point
where singularities are in the system with
which is a kind of dead end, viz., a point where
there is a population of individuals of the same
size, then, there is a point where the number of
individuals is so small that it cannot resist.

Just as the power of a fire can be regulated
by fuel and a chimney, so the fire of your
life can be regulated by the fuel of your
thoughts. If you feed your mind with
the fuel of the world, you will be a
slave to the world. If you feed your mind
with the fuel of the Spirit, you will be a
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It is admitted that the subcutaneous is attached
to the disease in its progress.

Diagnosis. The only disease with which scurvy
is liable to be confounded is measles. From
that may be distinguished by the character of the
eruption from the colour of the skin, and the affec-
tion of the joints.

The character of the eruption shows the difference as
the disease appears generally in the second day.
The measles seldom till the fourth & 5th day to
the 7th it is more full, grounds more even, smooth, &
uniformly, white and, white under the entire
coloured with minute pimples, or some places
forming continuous irregular patches or others
continuous with a uniform tinge over a considerable
extent of surface.

In the measles the rash is composed of circular
dots, partly distinct, partly set in small clusters or patches,
it is not a little elevated so as to give the sensation of

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hesitancy on passing the finger over them. These
scabs are a little confluent but give a coarse
granular and irregular surface, which is
not so much raised above the rest of the skin.

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5. *Scutellaria depressa* usually and most un-
usually affects the liver, is rarest, & the most dangerous
form, except the spinal variety.

The peculiarly active form of *Scutellaria* is a
good diuretic. It is mainly inserted and through
the small intestine, in some kind of, and appears pro-
bably that the excretion is lengthened in
each case. —

Prognosis. Great prostration in strength, bilia-
r distention, & acid saliva, from the lower, purple or
brownish in the face, with darkening of the
sclera, with diarrhea, and great prostration of
strength, are signs of a dangerous situation.
Cases in which any colour are fatal, exceedingly
dangerous, and those in which the face is
dark, and the sclerae are purple, are signs of recovery.
The case is very dangerous, and death will occur
in the third or fourth day, but sometimes it lingers
for three or four weeks, but generally, it may be said

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that the patient is cold, if he has a fever, the
fever is a febrile reaction, an abundant
reaction to the heat and dryness of the
fever. The degree of the fever is the substance
of the fever, and the degree of the fever is the
degree of the fever, with the fever, the
fever is a febrile reaction, an abundant
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Excretions. Excretions are the primary
and the secondary excretions, and the
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Pathology. Scarletina is a febrile reaction,
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Treatment. In its simple form scarlatina calls for little medical aid. An Emetic of Spessac and a Salutar Emetic about the first of June, 1851, is calomel followed by the watery salts, and a few days thereafter, 1/2 to 1 grain of the Japanese form. The localities are more or less attended to by evacuation of the alimentary canal as active vomiting with Salutar Emetic, which is substituted with calomel for 2 to 3 weeks practice is highly efficacious. Later in the summer, when the Eastern form has been brought out, a dose of 1/2 to 1 grain is the remedy, in creating a profuse action in the system. When the attack is protracted, 1/2 to 1 grain of calomel is given 1/2 to 1 grain of the Japanese form, 1/2 to 1 grain of the Japanese form have facilitated a profuse action.

The Emetic should be followed by 1/2 to 1 grain of calomel, this is the most perfect purge next is but two or three to prevent congestion in the abdominal

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between the two, or any other reason for it.
The water here is much warmer than the
temperature of the air, and is very soft.

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The warm bath is recommended when the disease
has reached a stage, and is very soft, and is very
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in a cloth to the epiglottis, & a compress to the
lower extremities.

But there are some cases where an emetic
cannot be used, the throat is so sore, scorbutic
scorbutic lucine and stomach are to be used.

Some applications to the throat after a religious hot
retention must not and often a small piece of
a cloth is put round and in a semicircular way, being
not by covering the throat from the sides of the
throat.

Congestion in the abdominal viscera, which are
indicated by a sense of weight or a pain in the
mid-region by topical bleeding blisters, and the
alterative use of mercury.

To cleanse the front of the throat, country is to
service the mouth to the viscera in the use of some
delegated quantity of the solution in water with marsh,
undisturbed by water or an infusion of cayenne pep-
per in solution, or sugar, or milk.

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Common Salt - 1 " "

Boiling water

vinegar each 3ij.

Empur and strain, Give a latt. spoonfull as
often as is required. This is used as a gargle and given
internally by the practitioners of the west Indies
in women malignant.

The treatment of the malignant fever is nearly the
same: the primary disease to be evacuated by ac-
tuals and a purg. medicine. To give bleeding
scarcely ever admissible. Antiseptic comes on
support the system by Carbonate of Ammonia, Car-
phic spirit of turpentine cast and vine, and the
ordinary external applications.

But what to cure is the disease then are certain
points which may require attention: Doctrs may
never agree upon the best time late being in
Hemorrh and Vomiting. Some recommend the action.

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Oedema of the lower extremities frequently follows scarlet fever; the best treatment for this is bleeding moderate purging and the exhibition of Digitalis; this article will sometimes prove eminently beneficial; frictions, bandages and exercise are to be used.

¹⁶ In Germany, the use of the belladonna has been proposed as a preventive for this disease. Its author is, Hahnemann of Leipzig; Berndt of Custrin states that out of one hundred and ninety-five cases of children under fourteen who took belladonna, and were freely exposed to the contagion fourteen only were infected: and that when he afterwards used a stronger preparation of the drug, every one escaped; all those exposed in families, who had the scarlatina and who did not take the medicine took the disease: whilst those who did, escaped. Other strong testimonies are given in its favour: Berch of Berlin states that if the belladonna be taken in proper doses for eight or nine days before exposure, the persons

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taking it are safe. The quantities given are very small. Three grains of the extract are dissolved in an ounce of cinnamon water, and of this two or three drops are given to a child under twelve months and one drop more for every year above that. No general effect is produced by it: Sometimes however it produces an eruption like that of scarlatina: It renders the attack more mild, if it does not prevent the disease; and if taken four or five days before exposure the disease never proves fatal."^o

* Ed. Med. and Surg. Journal January 1825.

To H. H. H. H.